

CD19 Monoclonal Antibody (HIB19), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIB19
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744834

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	12 Publications

Product Specific Information

Description: The HIB19 monoclonal antibody reacts with human CD19, a 95 kDa transmembrane glycoprotein. CD19 is expressed by B cells during all stages of development excluding the terminally differentiated plasma cells. Follicular dendritic cells also express CD19. Together CD21, CD81, Leu13, MHC class II, and CD19 form a multimolecular complex that associates with BCR. Signaling through CD19 induces tyrosine phosphorylation, calcium flux and proliferation of B cells. The SJ25C1 antibody and the HIB19 monoclonal antibody recognize overlapping epitopes.

Applications Reported: The HIB19 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HIB19 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from

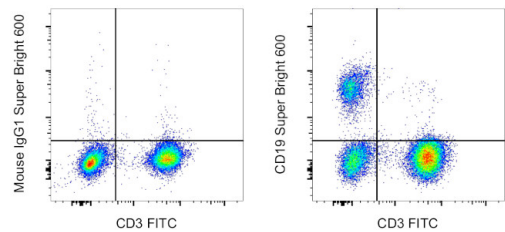
light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD19 Monoclonal Antibody (HIB19), Super Bright™ 600, eBioscience™



CD19 Antibody (63-0199-42) in Flow
Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0038-42) and Mouse IgG1 kappa Isotype Control Super Bright 600 (Product # 63-4714-82) (left) or CD19 Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

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12 References

Flow Cytometry (12)

<p>Annals of translational medicine</p> <p>Human serum albumin promotes self-renewal and expansion of umbilical cord blood CD34⁺ hematopoietic stem/progenitor cells.</p> <p>"Published figure using CD19 monoclonal antibody (Product # 63-0199-42) in Flow Cytometry"</p> <p>Authors: Hua J,Jiao T,Qiao Y,Zhang S,Xiao T,Zhang Y,Yan J</p>	<p>Year</p> <p>2023</p>
<p>Cell discovery</p> <p>Decoding the pathogenesis of Diamond-Blackfan anemia using single-cell RNA-seq.</p> <p>"Published figure using CD19 monoclonal antibody (Product # 63-0199-42) in Flow Cytometry"</p> <p>Authors: Wang B,Wang C,Wan Y,Gao J,Ma Y,Zhang Y,Tong J,Zhang Y,Liu J,Chang L,Xu C,Shen B,Chen Y,Jiang E, Kurita R,Nakamura Y,Lim KC,Engel JD,Zhou J,Cheng T,Zhu X,Zhu P,Shi L</p>	<p>Year</p> <p>2022</p>

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